

IN THE CLAIMS

Please amend the claims as follows:

1. (original) A wireless communication receiver, comprising:
  - (a) a processing unit that processes received signals and filters the processed signals in an analog domain to output filtered analog signals;
  - (b) an analog-to-digital converter (ADC) that converts the filtered analog signals into digital signals; and
  - (c) a digital filter that filters the digital signals from the ADC and attenuates residual interferers in the digital signals by a predetermined amount, so as to allow relaxation of tolerable quantization noise generated by the ADC to a pre-defined level to thereby substantially reduce a dynamic range of the ADC;wherein the ADC has a word length corresponding to the reduced dynamic range.
2. (original) The receiver of claim 1, wherein the pre-defined level is higher than a level prescribed by the receiver's sensitivity.
3. (currently amended) The receiver of claim 1 ~~or 2~~, wherein the pre-defined level of the quantization noise is maintained

within a range, such that the total interference of the receiver is kept at a level not greater than an allowable level.

4. (currently amended) The receiver of claim ~~1, 2 or 3~~, further comprising a demodulator that demodulates the filtered digital signals from the ADC to recover user data.

5. (original) A method for use in a wireless communication receiver, the method comprising the steps of:

processing received signals;

filtering the processed signals in an analog domain to output filtered analog signals;

converting the filtered analog signals into digital signals;  
and

filtering the digital signals in a digital domain to attenuate residual interferers in the digital signals by a predetermined amount, so as to allow relaxation of tolerable quantization noise generated at the converting step to a pre-defined level to thereby substantially reducing the number of quantization bits required at the converting step;

wherein the converting step converts the filtered analog signals into the digital signals with a corresponding reduced number of quantization bits.

6. (original) The method of claim 5, wherein the pre-defined level is higher than a level prescribed by the receiver's sensitivity.

7. (currently amended) The method of claim ~~5-or-6~~, wherein the pre-defined level is maintained within a range, such that the total interference of the receiver is kept at a level not greater than an allowable level.

8. (currently amended) The method of claim ~~5, 6-or-7~~, further comprising a step of demodulating the filtered digital signals to recover user data.